

Delphi Charge Inlets

The Delphi Charge Inlets comply with SAE J1772, an industry-standard vehicle interface for convenient charging of Plug-in Hybrid Electric Vehicles (PHEV) and Battery Electric Vehicles (BEV). Delphi's inlets were designed to support Level 1 and Level 2 charging. The Delphi Charge Inlets are recognized under the Component Recognition Program of Underwriters Laboratories Inc.

Two options of the Delphi Charge Inlets are available:

- With hinged integral cover for splash protection to protect the receptacle
- Without cover for use in applications with an OEM-provided cover

► Benefits

- Compliant to SAE J1772 standard interface to allow mating to Delphi's Portable Electric Vehicle Charger and systems used in the charging infrastructure
- Inlet available in two configurations:
 - Without cover
 - OEM to provide cover in vehicle applications
 - With latching cover
 - Hinged cover provides protection from elements such as splash to allow for placement in locations such as the bumper
 - Damper provides a smooth open feature for the door
 - Inlet is symmetrical to allow the cover to open in a left or right orientation
- Compression limiters for over torque protection at assembly plant
- Rubber boot attached to rear of inlet to provide harness protection
- Drain holes optimized to help eliminate water that may collect in terminal cavities
- Terminal crimps are isolated and sealed to protect the inlet from harsh environments
- Power terminals protect against arcing during a hot disconnect by integrating plastic tips in the terminal design
- Plating on terminals designed specifically to meet with 10,000 mate/unmate cycles

► Typical Applications

The Delphi Charge Inlets can be used with Plug-in Hybrid Electric Vehicles (PHEV) and Battery Electric Vehicles (BEV).



Delphi Charge Inlets are available with or without a cover to meet customer-specific design requirements.



The Delphi Portable Electric Vehicle Charger can mate to the Delphi Charge Inlet for safe, convenient electric vehicle charging.

▶ **Specifications**

Mounting flange dimensions	Length: 75 mm Width: 75 mm Depth: 75 mm with latching door
Operating temperatures	-40°C to +80°C
Cable	Handles either SAE level 1 or 2 charge requirements
SAE J1772-defined terminal interface	Two 3.6 mm power pins One 2.8 mm ground pin Two 1.5 mm control pins for pilot and proximity signals

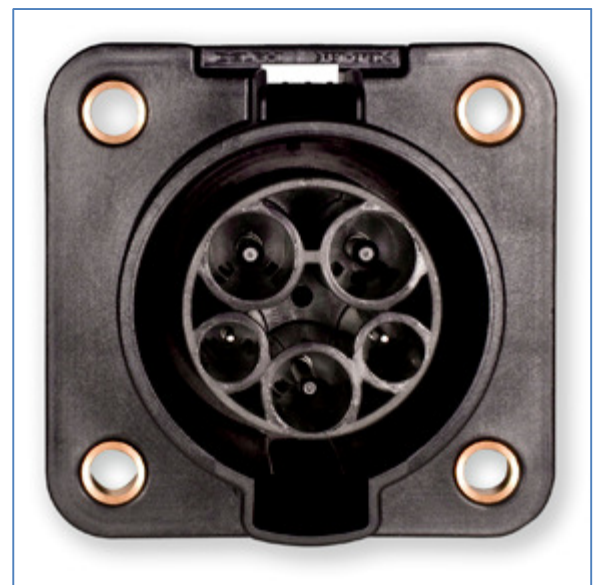
▶ **Codes and Standards**

The Delphi Charge Inlet complies with the following:

- UL 2251
 - Standard for Safety of Plugs, Receptacles and Couplers for EVs
- UL 94V0
 - Tests for Flammability of Plastic Materials for Parts in Devices and Appliances
- SAE J1772
 - Electric Vehicle and Plug in Hybrid Electric Vehicle Conductive Charge Coupler

▶ **Availability**

Pre-production samples will be available to manufacturers upon request. Contact Delphi for further information.



The Delphi Charge Inlet is compatible with any SAE J1772 coupler interfaces.